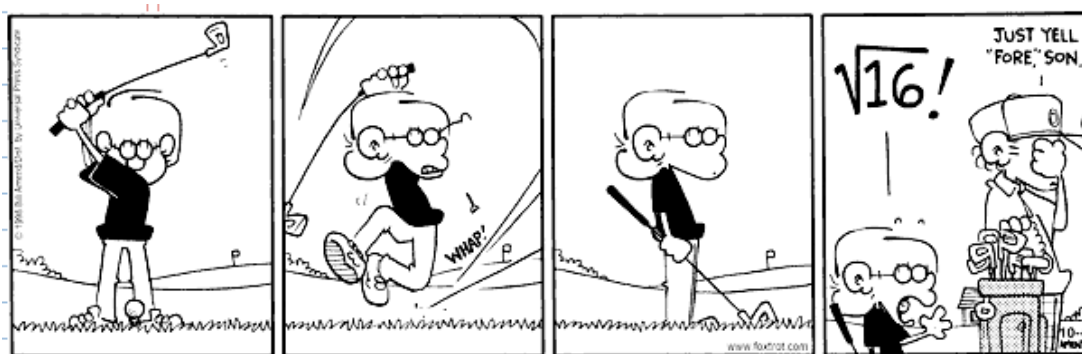


Algebra II Unit 6 HW Syllabus Revised*

Day	Date	Description	Homework
1		n^{th} roots – <i>simplifying, adding, subtracting</i>	• n^{th} Roots WKST 1
2		n^{th} roots – <i>multiplying, dividing, rationalizing</i>	• n^{th} Roots WKST 2
3		n^{th} roots – <i>simplifying with variables</i> Quiz Review	• n^{th} Roots WKST 3
4		QUIZ – n^{th} roots Rational Exponents	• Rational Exponents WKST
5		Solving Radical Equations – <i>Equations with one radical</i>	• P. 380 (3, 4, 13, 17, 18, 21, 28, 62, 63, 73) •
6		Solving Radical Equations – <i>Equations with multiple radicals or rational exponents</i>	• P. 380 (5-9) • Set B (see bottom of syllabus)
7		Quiz Review Sketching Square Root and Cube Root Functions	• Quiz Review WKST • P. 372 (2-7, 34, 36, 51-54) • Set A (see bottom of syllabus)
8		QUIZ – Rational Exponents, simplifying n^{th} roots with variables, and solving radical equations Unit 6 Review	• Unit 6 Review
9		Unit 6 Review	• Unit 6 Review
10		UNIT 6 TEST	• SPIRAL ASSIGNMENT 4

*This syllabus is subject to change.



SET A

Sketch the graph, then state the domain and range in interval notation.

1. $y = \sqrt[3]{x-4} - 1$

2. $y = -\sqrt[3]{x+1}$

3. $y = 2\sqrt[3]{-x} + 5$

SET B

Solve.

1. $2x^{2/3} = 32$

2. $\frac{1}{2}x^{5/2} = 16$

3. $\frac{1}{7}(x+9)^{3/2} = 49$

4. $(x-5)^{5/3} - 73 = 170$

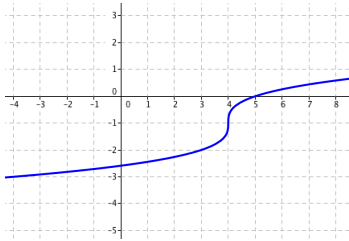
5. $\left(\frac{1}{3}x - 11\right)^{1/2} = 5$

6. $(3x+5)^{2/3} + 22 = 38$

SET ANSWERS

SET A

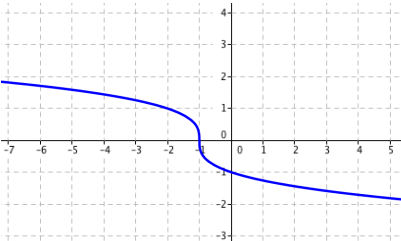
1.



D: $(-\infty, \infty)$

R: $(-\infty, \infty)$

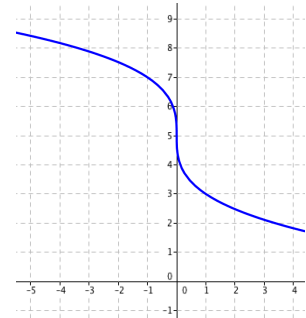
2.



D: $(-\infty, \infty)$

R: $(-\infty, \infty)$

3.



D: $(-\infty, \infty)$

R: $(-\infty, \infty)$

SET B

1. $x = \pm 64$

2. $x = 4$

3. $x = 40$

4. $x = 32$

5. $x = 108$

6. $x = -\frac{59}{3}, 23$